



**Tizen 2.3**

**EFL-UTC User Guide**

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# 1. Environment setup

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## 1.1. Symbols and abbreviations

UTC	- Unit Test Cases
SDB	-Smart Development Bridge
\$ (in shell command)	- Login shell in your computer
# (in shell command)	- Login shell in Tizen device via SDB

## 1.2. Hardware Requirements

1. Linux or Windows PC which can run SDB tool.
2. Tizen device that will work as target on which TCs will be executed
3. USB Cable for connecting device to host

## 1.3. Software Requirements

4. SDB tool to connect into Tizen device. (Tizen 2.3 SDK contains it)

# 2. Build the EFL UTC package

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## 2.1. Download TCT Source

Download TCT source from git.

1. Make a directory to download the source.

```
$ mkdir <folder_name>
```

2. Clones a repository into a newly created directory.

```
$ cd <folder_name>
```

```
$ git clone git://git.tizen.org/test/tct/native/efl-tct
```

```
$ cd tct
```

```
$ git checkout tizen_2.3
```

## 2.2. Build and Install packages

1. Update 'gbs.conf' file with repository which you refer to.

```
$ vim ~/.gbs.conf
```

2. Build packages. For Device,

```
$ cd efl-test-suite
```

```
$ gbs build -A armv7l --include-all
```

For Emulator,

```
$ cd efl-test-suite
```

```
$ gbs build -A i586 --include-all
```

# 3. Install the EFL UTC Package

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## 3.1. Push EFL UTC package into Tizen device

Enable sdb root mode:

```
$sdb root on
```

Push EFL UTC package into Tizen device:

```
$ cd ~/GBS-ROOT/local/repos/sdk/armv7l/RPMS/
```

```
$sdb push efl-test-suite-xxx.armv7l.rpm /opt/usr
```

```
bluezery@bluezery-desktop:~$ sdb root on
bluezery@bluezery-desktop:~$ sdb push efl-test-suite-1.3.0-2.armv7l.rpm /opt/usr/
pushed efl-test-suite-1.3.0-2.armv7l.rpm          100%          31MB
1 file(s) pushed. 0 file(s) skipped.
efl-test-suite-1.3.0-2.armv7l.rpm    4329 KB/s (33466927 bytes in 7.548s)
bluezery@bluezery-desktop:~$
```

Figure 1: EFL UTC Push

## 3.2. Login to Tizen device via SDB and install EFL UTC package

Login to Tizen device:

```
$ sdb shell
```

Install EFL UTC using rpm command:

```
$ change-booting-mode.sh --update (This is only for target, not for Emulator)
```

```
$ cd /opt/usr
```

```
$ rpm -Uvh efl-test-suite-xxx.armv7l.rpm -force --nodeps
```

**(change-booting-mode.sh script may be available only on the Samsung Tizen device. It will change file system to be writable.)**

```
bluezery@bluezery-desktop:~$ sdb shell
sh-3.2# cd /opt/usr/
sh-3.2# change-booting-mode.sh --update
Setting update mode for engineers
sh-3.2# ls
apps  dbspace  efl-test-suite-1.3.0-2.armv7l.rpm  live  lost+found  share
data  devel    etc                                log   media      ug
sh-3.2# rpm -Uvh efl-test-suite-1.3.0-2.armv7l.rpm --force --nodeps
reading device security policy from /etc/device-sec-policy
package ac-domain-system defined ac domain Isolated
package ac-domain-system defined ac domain ^
package ac-domain-system defined ac domain *
package ac-domain-system defined ac domain _
allowing ac_domain Isolated provided in root for root
allowing ac_domain ^ provided in root for root
allowing ac_domain * provided in root for root
allowing ac_domain _ provided in root for root
allowing ac_domain Isolated provided in root for _default_
allowing ac_domain ^ provided in root for _default_
allowing ac_domain * provided in root for _default_
allowing ac_domain _ provided in root for _default_
package privilege-checker defined ac domain privilege-checker
allowing ac_domain privilege-checker provided in _default_ for root
allowing ac_domain privilege-checker provided in _default_ for _default_
package libjpeg-turbo defined ac domain libjpeg-turbo
allowing ac_domain libjpeg-turbo provided in _default_ for root
allowing ac_domain libjpeg-turbo provided in _default_ for _default_
package dali defined ac domain dali
allowing ac_domain dali provided in _default_ for root
allowing ac_domain dali provided in _default_ for _default_
package key-storage defined ac domain key-storage
```

Figure 2: EFL UTC Install

## 4. Execute Test Suites

---

### 4.1. Run EFL UTC

**Before execute this, swipe off lock screen and check if LCD is on now.**

Run EFL UTC on Tizen device:

```
$ cd /opt/usr/efl-test-suite/TC
```

```
$ ./execute.sh
```

```
sh-3.2# cd /opt/usr/efl-test-suite/TC
sh-3.2# ./execute.sh
Start checking current machine....
arm7l is running....
tcc: journal file is /opt/usr/efl-test-suite/TC/results/exec-tar-result-1416210274.journal
1
16:44:34 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_run
16:44:37 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_feedback_run
16:44:39 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_cancel
16:44:41 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_check
16:44:43 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_add
16:44:44 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_del
16:44:45 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_find
16:44:46 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_max_set
16:44:47 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_max_get
16:44:48 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_active_get
16:44:49 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_available_get
16:44:50 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_pending_get
16:44:52 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_pending_total_get
16:44:55 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_local_data_add
16:44:57 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_local_data_del
16:44:59 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_local_data_find
16:45:01 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_feedback
16:45:03 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_reschedule
16:45:04 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_pending_feedback_get
16:45:07 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_set
16:45:08 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_wait
16:45:09 Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_local_data_set
```

Figure 3: EFL UTC Run

## 4.2. View Result Summary

Get results from Tizen device to your computer:

```
$ sdb pull /opt/usr/efl-test-suite/TC/results/
```

View results via browser:

```
$ google-chrome exec-tar-result-xxxx.html
```

```
bluezery@bluezery-desktop:~/results$ sdb pull /opt/usr/efl-test-suite/TC/results/
pulled exec-tar-result-1416210274.journal      100%      28KB
pulled exec-tar-result-1416210213.html 100%      38KB
pulled exec-tar-result-1416210213.journal      100%      16KB
pulled exec-tar-result-1416210274.html 100%      62KB
pulled build-tar-result-1416198615.journal      100%      2MB
pulled                                     journal 100%      2MB
6 file(s) pulled. 0 file(s) skipped.
/opt/usr/efl-test-suite/TC/results/ 3381 KB/s (5584245 bytes in 1.612s)
bluezery@bluezery-desktop:~/results$ google-chrome exec-tar-result-1416210213.html
[25188:25188:1117/164646:ERROR:nss_util.cc(853)] After loading Root Certs, loaded==false:
NSS error code: -8018
Created new window in existing browser session.
bluezery@bluezery-desktop:~/results$
```

Figure 4: Get EFL UTC Results



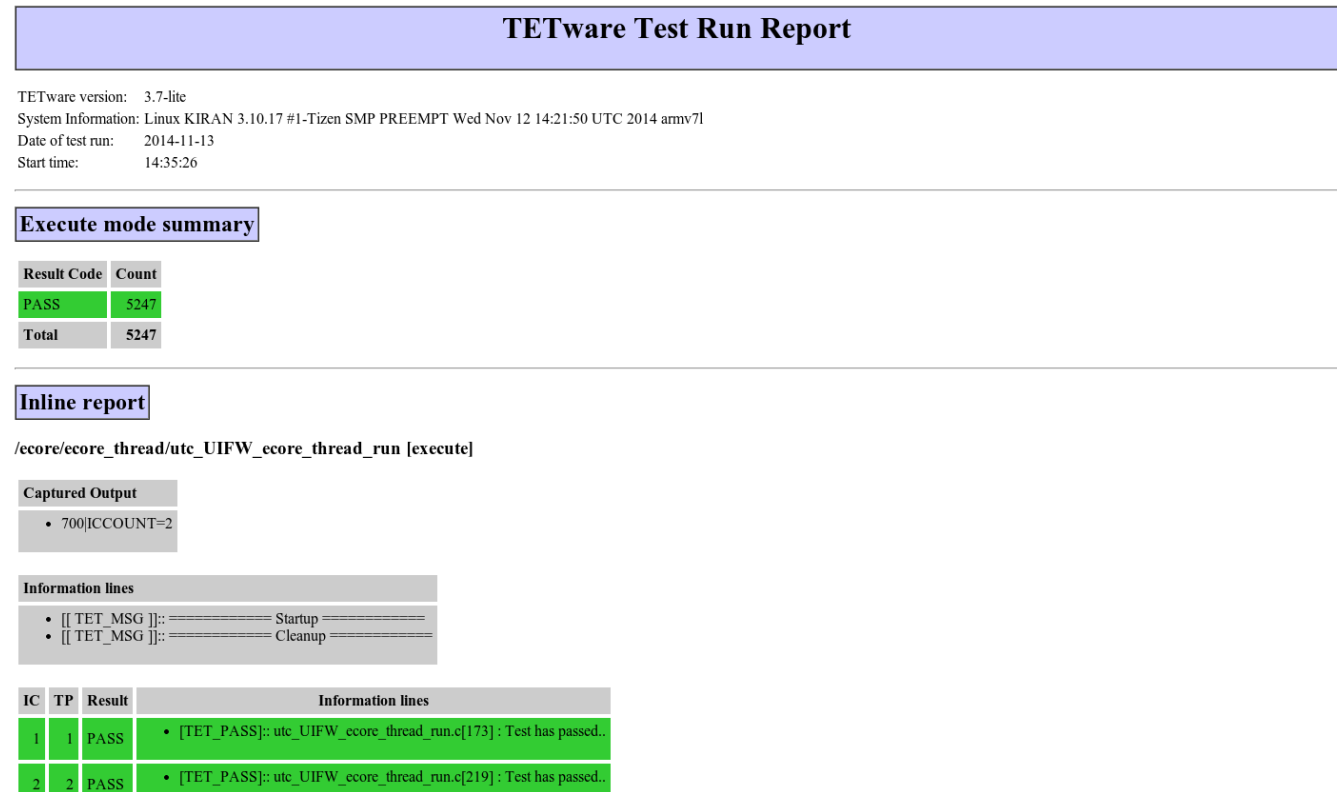


Figure 5: View EFL UTC Results